



*ViaNova was established as an independent consultancy group in 1988 within the field of infrastructure design and software development. Through a network of partly owned companies and co-operation partners the ViaNova group represents 300 professional engineers. ViaNova offers complete design services within Civil Engineering and Infrastructure design specialising in high end computer technology.*

## ViaNova

ViaNova's main activities fall within the following areas:

- Road, railway and airport planning
- Transportation planning and traffic engineering
- Road technology, maintenance and rehabilitation
- Computer software development within CAD, GIS, ITS and data/integration

ViaNova's project work is characterised by a multi-disciplinary staff and a rational use of computer technology. We specialise in carrying out integrated transport projects in urban areas and in traffic management for urban roads and road tunnels. Within maintenance management our services cover all aspects of performance standards, contract maintenance and contract management together with maintenance operations, methods and technology. ViaNova also develops computer applications for use in road, rail and transportation planning and for analysis of geographical information. Our latest developments within software comprise systems for data and information management for complete national infrastructure systems.

Software development takes place in very close co-operation with National Roads Administrations, Universities and other Consultant companies and is customised for each country. Our Computer Aided Design Software-system, Novapoint, is fitted to local standards and used in Norway, Sweden, Denmark, Finland, Iceland, Greenland, UK, Belgium, Spain, Korea, Thailand, Laos, Malaysia, India, Vietnam, Kenya, Tanzania and Nigeria.

### Highway & Railway Design

- Highway & railway engineering - planning, design and maintenance
- Tender documents
- Construction supervision

### Transportation

- Feasibility studies for transportation development in urban/rural areas
- Traffic modelling
- Traffic management
- Traffic engineering and control techniques for urban roads and road tunnels

### Road Technology/ Maintenance

- Pavement management and design
- Rehabilitation and maintenance programmes
- Road condition surveys
- Maintenance standards
- Maintenance organisation and operations
- Tender documents

### Computer Services

- Development of computer programs for infrastructure design, construction and maintenance
- GIS applications and data/integration
- Novapoint Computer Aided Design system - Road design, Rail design, Bridge design, Landscape, Noise, Water and Sewer, Soil mechanics, Survey, Virtual Reality. Training and user support.

### Institutional Development

- Strategy and business development
- Public Sector development
- Capacity building in roads agencies
- Training
- Organizing, economy and standards

## Typical Projects

### Urban Highway Planning

*Norway:* The Oslo and Ekeberg tunnels, Oslo

*Norway:* The Bjørvika crossing, Oslo

*Thailand:* Wat Nakorn In, 30 km highway with bridges in Bangkok

*Thailand:* Ratchburi bypass

### Rural Roads Planning

*Thailand:* 1000 km rural road rehabilitation, Public Works Department

*Kenya:* Rumuruti - Maralal Road, detail design

*Sudan:* El Dueim - Es Sufi Road, detail design

*Sudan:* Suakin - Tokar Road, detail design

*Tanzania:* Himo - Arusha, detail design

### Value Engineering

*Norway:* E6 Øyer N - Tretten S, Oppland county

### Railway Planning

*Norway:* Gardermobanen, high speed railway to international airport at Gardermoen (including 13 km tunnel)

### Light Rail Planning

*Norway:* Østensjøbanen, new light rail line, Oslo

*Norway:* Røabanen, rehabilitation of light rail line, Oslo

*Norway:* "T-bane-ringen", new cross link between existing lines, Oslo

### Maintenance Management

*Norway:* Plan for rehabilitation of 1700 km national roads in Akershus County

*Norway:* Tender documents and maintenance contracts for road networks

*Norway:* Development of maintenance standards for national roads and local roads

### Traffic Management and Control

*Norway:* City of Oslo

*Finland:* Böleleden, Helsinki

*Sweden:* The Stockholm Ring Road

*Israel:* Road no. 4, Jerusalem

*Norway:* 1994 Winter Olympic Games, Lillehammer

### Feasibility Studies

*Norway:* Access roads to new international airport Gardermoen

*Norway:* Western Corridor - Oslo, Transportation analysis of highway, railway and light rail

### Business Reengineering

*Norway:* Public Roads Administration: Transformation of in-house services to public sector company.

## Computer Aided Design Systems

*Norway:* Development of CAD-system Novapoint in cooperation with the Public Road Administration

*Norway:* National Road Databank for Public Road Administration

*Norway:* National Rail Databank for National Rail Administration

*Denmark, Sweden, Thailand, Malaysia:* Implementation of national standards in design system Novapoint for county road administrations and general market

*Internationally:* 9300 registered user licenses

## Cooperating Partners

### Norway

ViaNova Plan og Trafikk AS

ViaNova Systems AS

Dr. Ing. A. Aas-Jakobsen A.S

GeoVita as

Norkart AS

ElectroNova AS

ViaNova TransIT AS

ViaNova Trondheim AS

ViaNova Kristiansand AS

ViaNova Eureka AS

AnkoNova AS

### Sweden, Denmark, Finland

ViaNova Systems Sweden AB

ViaNova Systems Danmark A/S

ViaNova Systems Finland OY

### Thailand

ViaNova Systems (Thailand)

NCE Co. Ltd.

### Malaysia

Acad Systems Sdn. Bhd.

### Hong Kong

PIL Ltd.

Spatial Technology Ltd.

### India

Paras CADD Technologies Ltd.

Secon Surveys Ltd.

Novapoint Software Solutions (India) Ltd.

### Vietnam

ViaNova Systems Vietnam Ltd.

### Taiwan

Precision Probe Inc.

### Spain

ViaNova Systems Spain SC

Transportation

Software development

Bridges, structural design

Soil mechanics, geology

Survey, Mapping and GIS

Electrical installations, road and street lighting, control systems

ITS

Software development

Transportation

Web based control systems and GPS applications

Transportation

Consulting engineers

Novapoint-distribution/ training/support

CAD-development Novapoint-distribution/ training/support

CAD-development Novapoint-distribution/ training/support

Software development Novapoint-distribution/ training/support

Civil engineering/ Novapoint marketing

Novapoint distribution/ training/support

Novapoint distribution/ training/support

Novapoint distribution/ training/support

Novapoint marketing

Novapoint distribution/ training/support

Novapoint distribution/ training/support

Novapoint distribution/ training/support

Novapoint distribution/ training/support

Novapoint sales/ training/support

Consulting engineers

Novapoint distribution/ training/support

Novapoint distribution/ training/support

Novapoint distribution/ training/support

Documentation/support

Software development

Software development

Novapoint sales/ training/support

Novapoint sales/ training/support

Novapoint sales/ training/support

Novapoint sales/ training/support



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